

What is Claimed is:

1. A magnetic recording medium comprising:  
a substrate with a magnetic recording layer, the substrate having a plurality of recording tracks each with track ID information that is not erasable with a magnetic recording head used for writing contents data to the magnetic recording medium.
2. A magnetic recording medium according to claim 1, wherein the track ID information is buried in each of the recording tracks, each of which has a pattern of pits formed on the substrate.
3. A magnetic recording medium according to claim 2, wherein a signal arrangement of the track ID information formed by the pattern of pits is randomly set at each of the recording tracks without any relevance and regularity that depends on a position of the track.
4. A magnetic recording device including the magnetic recording medium according to claim 1, including a magnetic recording head, wherein the magnetic recording head reads contents data recorded in the recording track with the track ID information, along with the track ID information thereof.
5. A magnetic recording device including the magnetic recording medium according to claim 2, including a magnetic recording head, wherein the magnetic recording head reads contents data recorded in the recording track with the track ID information, along with the track ID information thereof.
6. A magnetic recording device including the magnetic recording medium according to claim 3, including a magnetic recording head, wherein the magnetic recording head reads contents data recorded in the recording track with the track ID information, along with the track ID information thereof.

7. A method of enhancing data security for contents data writable to a magnetic recording medium with a substrate with a magnetic recording layer, the substrate having a plurality of recording tracks, the method comprising the steps of:

    forming a unique track ID information that is not erasable with a magnetic recording head used for writing contents data to the magnetic recording medium on each of the recording tracks;

    writing content data on the recording medium between the track ID information;

    reading the contents data recorded in the recording track with the track ID information, along with the track ID information thereof; and

    authenticating the contents data by relating the read track ID information to the contents data.